

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number
WO 2005/029708 A1

(51) International Patent Classification⁷: **H03M 1/50**

(DK). ARKNÆS-PEDERSEN, Lars [DK/DK]; Bernstorffsvej 13, DK-8260 Viby J. (DK).

(21) International Application Number:
PCT/DK2004/000643

(74) Agent: PATENTGRUPPEN APS; Aroskaerden, Åboulevarden 31, DK-8000 Aarhus C (DK).

(22) International Filing Date:
22 September 2004 (22.09.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/DK03/00613
22 September 2003 (22.09.2003) DK

(71) Applicant (for all designated States except US): TC ELECTRONIC A/S [DK/DK]; Sindalsvej 34, DK-8240 Risskov (DK).

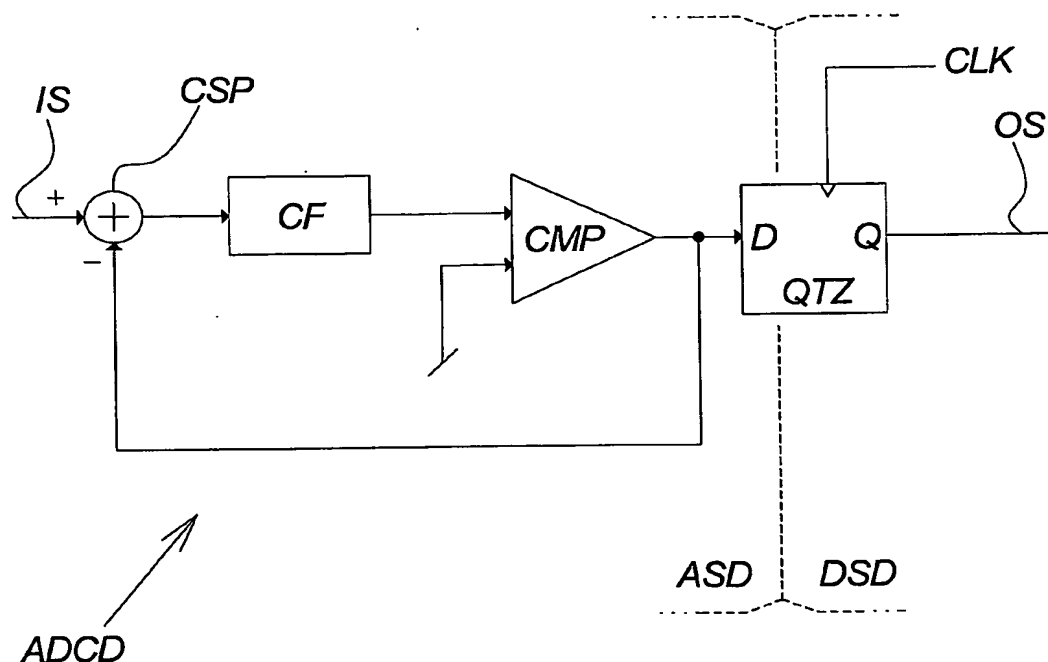
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

(72) Inventors; and

(75) Inventors/Applicants (for US only): PEDERSEN, Kim, Rishøj [DK/DK]; Skaering Sandager 54, DK-8250 Egå

[Continued on next page]

(54) Title: A/D CONVERTER



(57) Abstract: The invention relates to at least one self-oscillating loop (SOL) comprising at least one forward path (FP), at least one feedback path (FBP) wherein said at least one forward path (FP) comprises amplitude quantizing means (AQM) combined with time quantizing means (TQM) and outputting at least one time and amplitude quantized signal (OS). According to the invention, a high-speed high-resolution A/D converter may be obtained.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*